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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,365	10/14/2004	Hendrik Klaas Jan Ten Dolle	NL 020324	8675
24737	7590	06/05/2006	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			NGUYEN, HIEU P	
			ART UNIT	PAPER NUMBER
			2817	

DATE MAILED: 06/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/511,365

Applicant(s)

TEN DOLLE ET AL.

Examiner

Hieu P. Nguyen

Art Unit

2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 April 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 and 3-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1, 3, 4 and 6 is/are allowed.
- 6) ☒ Claim(s) 5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 5 is rejected under 35 U.S.C. 102(e) as being anticipated by Sowlati (U.S. 6515547).

Regarding claim 5, Sowlati discloses a structure as well as an method of amplifying a wide band signal the method comprising: inputting the wide band signal to a control electrode of input transistors (M1/M3) in a first and second current branch each current branch comprising one of the input transistors (e.g., M1 in Fig. 5b) and a cascode transistor (e.g., M2 in Fig. 5b) the input connections being coupled to control electrodes of the input transistors (M1/M3) in respective ones of the current branches control electrodes of the cascode transistors (M2/M4) being coupled to each other, outputting amplified signals from output connections that are coupled to a common current source circuit (Ls) via a series connection of the main current channels of the cascode transistor and the input transistor successively, of a respective one of the current branches; copying substantially common mode voltage changes of terminals of the main

current channels of the input transistors to voltage changes at the control electrodes of the cascode transistors, at least in a frequency band of the wide band signal, (capacitors Cb).

### ***Response to Arguments***

Applicant's arguments filed 4/12/2006 have been fully considered but they are not persuasive with respect to claim 5.

Sowlati's circuit lacks the inductance connected to the high frequency current blocking circuit. However the specification and/or the abstract clearly mentioned that "a high frequency coupling is provided between the control electrodes of the cascode transistors and a node of the common current source, to copy substantially common mode voltage changes of terminals to voltage changes at the control electrodes of the cascode transistor" (see applicant's abstract), thus the circuit of Sowlati has the element and inherently meets the claimed language of "copying substantially common mode voltage changes of terminal ... at least in a frequency band of the wide band signal" in claim 5.

In addition, the inductance isn't provided between the control electrodes of the cascode transistors and the node of the common current source (please see applicant's Fig. 1 for detail), therefore it cant' be considered as performing the "copying" function claimed.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

*Allowable Subject Matter*

Claims 1, 3-4 and 6 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1, 3-4 are allowed over the prior art of record. The prior art of record considered individually or in combination, fails to fairly teach or suggest the claimed circuit comprising, among other limitations and unobvious limitations of "n inductance for blocking flow of current from the high frequency coupling through the biasing circuit" structurally and functionally interconnected with other limitations in the manner as cited in the claims.

Claims 6 are allowed over the prior art of record. The prior art of record considered individually or in combination, fails to fairly teach or suggest the claimed circuit comprising, among other limitations and unobvious limitations of "wherein feedback impedance element is coupled between an output of at least one of the first and the second current branch" structurally and functionally interconnected with other limitations in the manner as cited in the claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nakatani et al. U.S. 2005/0110555 discloses an analogous circuit, but lacks "a high frequency coupling".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu Nguyen whose telephone number is 571-272-8577. The examiner can normally be reached on M-F 8-5.

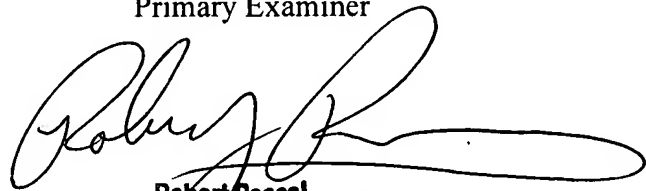
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hieu Nguyen  
AU: 2817

hn

Robert Pascal  
Primary Examiner

A handwritten signature in black ink, appearing to read 'Robert Pascal', with a long horizontal flourish extending to the right.

Robert Pascal  
Supervisory Patent Examiner  
Technology Center 2800